



Summary Matrix of Calculated Variables (CV) in the 2019 Data File

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| Behavioral Risk Factor Surveillance System 2019, Summary Martix | | | |
|--|---|---|--------------------------------------|
| Description or Result of Calculation | Input Variables (From Questionnaire) | Intermediate and Output Variables used in calculations | Output Variables (In Final Data Set) |
| Section 1: Health Status | | | |
| CV for fair or poor general health | GENHLTH | | _RFLTH |
| Section 2: Healthy Days | | | |
| CV for days of not good physical health | PHYSHLTH | | _PHYS14D |
| CV for days of not good mental health | MENTHLTH | | _MENT14D |
| Section 3: Health Care Access | | | |
| CV for respondents aged 18-64 years that have any form of health care coverage | HLTHPLN1, AGE | | _HCVU651 |
| Section 4: Hypertension Awareness | | | |
| CV for High Blood Pressure | BPHIGH4 | | _RFHYPE5 |
| Section 5: Cholesterol Awareness | | | |
| Three level categorization for cholesterol checked within past five years | CHOLCHK2 | | _CHOLCH2 |
| CV for ever having had cholesterol checked and told it was high | CHOLCHK2, TOLDHI2 | | _RFCHOL2 |
| Section 6: Chronic Health Conditions | | | |
| CV for respondents that reported having coronary heart disease or myocardial infarction | CVDINFR4, CVDCRHD4 | | _MICHHD |
| CV for lifetime asthma prevalence | ASTHMA3 | | _LTASTH1 |
| CV for current asthma prevalence | ASTHMA3, ASTHNOW | | _CASTHM1 |
| Computed asthma status | ASTHMA3, ASTHNOW | | _ASTHMS1 |
| CV for respondents that have had a doctor diagnose them as having some form of arthritis | HAVARTH4 | | _DRDXAR2 |
| Section 7: Arthritis | | | |
| CV for limited usual activities | HAVARTH4, LMTJOIN3 | | _LMTACT2 |
| CV for limited work activities | HAVARTH4, ARTHDIS2 | | _LMTWRK2 |
| Section 8: Demographics | | | |
| Reported MRACE with trailing 7,8,9's removed | MRACE1 | | MRACORG1 |
| Reported MRACE with trailing 7,8,9's removed in ascending order | MRACE1 | MRACORG1 | MRACASC1 |
| Preferred Race | MRACE1, ORACE3 | MRACORG1, MRACASC1 | _PRACE1 |
| Multiracial Race categorization | MRACE1 | MRACORG1, MRACASC1 | _MRACE1 |
| Multiracial Race categorization | MRACE1 | MRACORG1, MRACASC1 | _M_RACE |
| CV for Hispanic, Latino or Spanish categorization | HISPANC3 | | _HISPANC |
| CV for race/ethnicity | MRACE1, HISPANC3 | _HISPANC, _MRACE1, MRACORG1, MRACASC1 | _RACE |
| White, non-Hispanic and non-White or Hispanic race/ethnicity groupings. | MRACE1, HISPANC3 | _HISPANC, _MRACE1, MRACORG1, MRACASC1, _RACE | _RACEG21 |
| Hispanic and non-Hispanic White, Black, and Other race/ethnicity groupings. | MRACE1, HISPANC3 | _HISPANC, _MRACE1, MRACORG1, MRACASC1, _RACE | _RACEGR3 |
| Hispanic and non-Hispanic White, Black, and Other race/ethnicity groupings. | MRACE1, HISPANC3 | _HISPANC, _MRACE1, MRACORG1, MRACASC1, _RACE, _RACEGR3 | _RACE_G1 |
| Calculated sex variable | BIRTHSEX, SEXVAR | | _SEX |
| 18-24 and then 5-year age groupings to 80+. | AGE | | _AGEG5YR |
| 18-64 and 65+ age groupings. | AGE | | _AGE65YR |
| CV for imputed age collapsed above 80 | AGE | _IMPAGE | _AGE80 |
| 18-64 and 65+ 10 year age groupings. | AGE | _IMPAGE | _AGE_G |
| CV for height in inches | HEIGHT3 | | HTIN4 |
| CV for height in meters | HEIGHT3 | HTIN4 | HTM4 |
| CV for weight in kilograms | WEIGHT2 | | WTKG3 |
| Calculated Body Mass Index | PREGNANT, WEIGHT2, HEIGHT3 | HTIN4, HTM4, WTKG3 | _BMI5 |
| Tri-level weight variable (normal, overweight, obese) based on Body Mass Index | PREGNANT, WEIGHT2, HEIGHT3 | HTIN4, HTM4, WTKG3, _BMI5 | _BMISCAT |
| CV for Overweight or Obese Body Mass Index level | PREGNANT, WEIGHT2, HEIGHT3 | HTIN4, HTM4, WTKG3, _BMI5 | _RFBMI5 |
| Calculated number of children in household | CHILDREN | | _CHLDCNT |
| Calculated education level completed | EDUCA | | _EDUCAG |
| Calculated income categories | INCOME2 | | _INCOMG |
| Section 9: Tobacco Use | | | |
| Smoking Status: Everyday smoker, someday smoker, former smoker and non smoker | SMOKE100, SMOKDAY2 | | _SMOKER3 |
| CV for current smoking status | SMOKE100, SMOKDAY2 | _SMOKER3 | _RFSMOK3 |
| Section 10: Alcohol Consumption | | | |
| CV for alcohol consumption | ALCDAY5 | | DRNKANY5 |
| Drink occasions per day | ALCDAY5 | | DROCDY3_ |
| CV for BINGE drinking (males GE 5 drinks on an occasion, females GE 4 drinks on an occasion) | ALCDAY5, DRNK3GE5 | | _RFBING5 |
| CV for number of drinks of alcohol per week | ALCDAY5, AVEDRNK3 | DROCDY3_ | _DRNKWK1 |
| CV for HEAVY drinking (GT 2 drinks per day for men, GT 1 drink per day for women) | BIRTHSEX,SEXVAR, ALCDAY5 | _DRNKWK1 | _RFDRHV7 |
| Section 11: Exercise (Physical Activity) | | | |
| CV for no leisure time physical activity | EXERANY2 | | _TOTINDA |
| Activity MET Value for First Activity | EXTRACT11 | | METVL11_ |
| Activity MET Value for Second Activity | EXTRACT21 | | METVL21_ |
| Estimated Age-Gender Specific Maximum Oxygen Consumption | BIRTHSEX, SEXVAR, AGE | | MAXVO21_ |
| Estimated Functional Capacity | BIRTHSEX, SEXVAR, AGE | MAXVO21_ | FC601_ |
| Estimated Activity Intensity for First Activity | EXTRACT01, BIRTHSEX, SEXVAR, AGE | METVL11_, FC601_ | ACTIN12_ |
| Estimated Activity Intensity for Second Activity | EXTRACT02, BIRTHSEX, SEXVAR, AGE | METVL21_, FC601_ | ACTIN22_ |
| Minutes of First Activity | EXERHMM1 | | PADUR1_ |
| Minutes of Second Activity | EXERHMM2 | | PADUR2_ |
| Physical Activity Frequency per Week for First Activity | EXERANY2, EXEROFT1 | | PAFREQ1_ |
| Physical Activity Frequency per Week for Second Activity | EXERANY2, EXEROFT2 | | PAFREQ2_ |
| Minutes of Physical Activity per week for First Activity | EXTRACT11, SEX, AGE, EXERHMM1, EXERANY2, EXEROFT1 | PADUR1_, PAFREQ1_, ACTIN11_ | _MINAC11 |
| Minutes of Physical Activity per week for Second Activity | EXTRACT21, SEX, AGE, EXERHMM2, EXERANY2, EXEROFT2 | PADUR2_, PAFREQ2_, ACTIN21_ | _MINAC21 |
| Strength Activity Frequency per Week | STRENGTH | | STRFREQ_ |
| Missing Physical Activity Data | EXERANY2, EXTRACT11, SEX, AGE, EXTRACT21, EXERHMM1, EXEROFT1, EXERHMM2, EXEROFT2 | ACTIN12_, _MINAC11, ACTIN22_, _MINAC21 | PAMISS2_ |
| Minutes of Physical Activity per week for First Activity | EXTRACT11, BIRTHSEX, SEXVAR, AGE, EXERHMM1, EXERANY2, EXEROFT1 | ACTIN12_, _MINAC12 | PAMIN12_ |
| Minutes of Physical Activity per week for Second Activity | EXTRACT21, BIRTHSEX, SEXVAR, AGE, EXERHMM2, EXERANY2, EXEROFT2 | ACTIN22_, _MINAC22 | PAMIN22_ |
| Minutes of total Physical Activity per week | EXTRACT01, EXERHMM1, EXERANY2, EXEROFT1, EXTRACT02, BIRTHSEX, SEXVAR, AGE, EXERHMM2, EXERANY2, EXEROFT2 | PAMIN12_, PAMIN22_ | PA2MIN_ |
| Minutes of Vigorous Physical Activity per week for First Activity | EXTRACT11, BIRTHSEX, SEXVAR, AGE, EXERHMM1, EXERANY2, EXEROFT1 | ACTIN12_, _MINAC12 | PAVIG12_ |
| Minutes of Vigorous Physical Activity per week for Second Activity | EXTRACT21, BIRTHSEX, SEXVAR, AGE, EXERHMM2, EXERANY2, EXEROFT2 | ACTIN22_, _MINAC22 | PAVIG22_ |
| Minutes of total Vigorous Physical Activity per week | EXTRACT01, BIRTHSEX, SEXVAR, AGE, EXERHMM1, EXERANY2, EXEROFT1, EXTRACT02, EXERHMM2 | PAVIG12_, PAVIG22_ | PA2VIGM_ |
| Physical Activity Categories | BIRTHSEX, SEXVAR, AGE, EXERANY2, EXTRACT11, EXERHMM1, EXEROFT1, EXTRACT21, EXERHMM2, EXERANY2, EXEROFT2 | PA2MIN_, PA2VIGM_, PAMISS2_ | _PACAT2 |
| Physical Activity Index | BIRTHSEX, SEXVAR, AGE, EXERANY2, EXTRACT11, EXERHMM1, EXEROFT1, EXTRACT21, EXERHMM2, EXERANY2, EXEROFT2 | PA2MIN_, PAMISS2_ | _PAINDX2 |
| 150 Minute Physical Activity Calculated Variable | BIRTHSEX, SEXVAR, AGE, EXERANY2, EXTRACT11, EXERHMM1, EXEROFT1, EXTRACT21, EXERHMM2, EXERANY2, EXEROFT2 | PA2MIN_, PA2VIGM_, PAMISS2_ | _PA150R3 |
| 300 Minute Physical Activity Calculated Variable | BIRTHSEX, SEXVAR, AGE, EXERANY2, EXTRACT11, EXERHMM1, EXEROFT1, EXTRACT21, EXERHMM2, EXERANY2, EXEROFT2 | PA2MIN_, PAMISS2_ | _PA300R3 |
| 300 Minute Physical Activity 2-Level Calculated Variable | BIRTHSEX, SEXVAR, AGE, EXERANY2, EXTRACT11, EXERHMM1, EXEROFT1, EXTRACT21, EXERHMM2, EXERANY2, EXEROFT2 | _PA300R3 | _PA30022 |
| Muscle Strengthening Recommendation | STRENGTH | STRFREQ_ | _PASTRNG |
| Aerobic and Strengthening Guideline | BIRTHSEX, SEXVAR, AGE, EXERANY2, EXTRACT11, EXERHMM1, EXEROFT1, EXERHMM2, EXERANY2, EXEROFT2, STRENGTH | _PASTRNG, _PAINDX2 | _PAREC2 |
| Aerobic and Strengthening (2-level) | BIRTHSEX, SEXVAR, AGE, EXERANY2, EXTRACT11, EXERHMM1, EXEROFT1, EXTRACT21, EXERHMM2, EXERANY2, EXEROFT2, STRENGTH | _PAREC2 | _PASTAE2 |
| Section 12: Fruits & Vegetables | | | |
| CV for fruit juice intake in times per day | FRUITJU2 | | FTJUDA2_ |
| CV for fruit intake in times per day | FRUIT2 | | FRUTDA2_ |
| CV for dark green vegetable intake in times per day | FVGREEN1 | | GRENDA1_ |
| CV for french fry intake in times per day | FRENCHF1 | | FRNCHDA_ |
| CV for potato intake in times per day | POTATOE1 | | POTADA1_ |
| CV for vegetable intake in times per day | VEGETAB2 | | VEGEDA2_ |
| CV for the number of missing fruit responses | FRUITJU2, FRUIT2 | FTJUDA2_, FRUTDA2_ | _MISFRT1 |
| CV for the number of missing vegetable responses | VEGETAB2, FVGREEN1, POTATOE1, FRENCHF1 | GRENDA1_, VEGEDA2_, POTATDA1_, FRENCHDA_ | _MISVEG1 |
| CV for missing any fruit responses | FRUITJU2, FRUIT2 | FTJUDA2_, FRUTDA2_, _MISFRT1 | _FRTRES1 |
| CV for missing any vegetable responses | VEGETAB2, FVGREEN1, POTATOE1, FRENCHF1 | GRENDA1_, VEGEDA2_, POTATDA1_, FRENCHDA_, _MISVEG1 | _VEGRES1 |
| CV for total fruits consumed per day | FRUITJU2, FRUIT2 | FTJUDA2_, FRUTDA2_ | _FRUTSU1 |
| CV for total vegetables consumed per day | VEGETAB2, FVGREEN1, POTATOE1, FRENCHF1 | GRENDA1_, VEGEDA2_, POTATDA1_, FRENCHDA_ | _VEGESU1 |
| CV for consuming fruit 1 or more times per day | FRUITJU2, FRUIT2 | FTJUDA2_, FRUTDA2_, _FRUTSU1 | _FRTL1A |
| CV for consuming vegetables 1 or more times per day | VEGETAB2, FVGREEN1, POTATOE1, FRENCHF1 | GRENDA1_, VEGEDA2_, POTATDA1_, FRENCHDA_, _VEGESU1 | _VEGL1A |
| CV for reported consuming fruit >16 per day | FRUITJU2, FRUIT2 | FTJUDA2_, FRUTDA2_, _FRUTSU1 | _FRT16A |
| CV for reported consuming vegetables >23 per day | VEGETAB2, FVGREEN1, POTATOE1, FRENCHF1 | GRENDA1_, VEGEDA2_, POTATDA1_, FRENCHDA_, _VEGESU1 | _VEG23A |
| CV for fruit exclusion from analyses | FRUITJU2, FRUIT2 | FTJUDA2_, FRUTDA2_, _MISFRT1, _FRUTSU1, _FRTRES1, _FRT16A | _FRUTE1 |
| CV for vegetable exclusion from analyses | VEGETAB2, FVGREEN1, POTATOE1, FRENCHF1 | GRENDA1_, VEGEDA2_, POTATDA1_, FRENCHDA_, _VEGESU1, _MISVEG1, _VEGRES1, _VEG23A | _VEGETE1 |
| Section 13: Immunization | | | |
| CV for respondents aged 65 and older that have had a flu shot within the past year | AGE, FLUSHOT7 | | _FLSHOT7 |
| CV for respondent aged 65 and older that have ever had a pneumonia vaccine | PNEUVAC4 | | _PNEUMO3 |
| Section 14: HIV/AIDS | | | |
| CV for having ever been tested for HIV | HIVTST7 | | _AIDTST4 |

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Source: National Center for Chronic Disease Prevention and Health Promotion, Division of Population Health

